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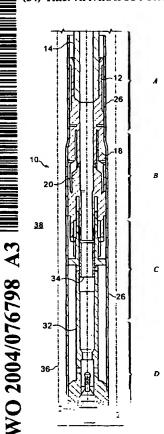
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[Continued on next page]

(54) Title: APPARATUS FOR RADIALLY EXPANDING AND PLASTICALLY DEFORMING A TUBULAR MEMBER



(57) Abstract: An apparatus (10) for radially expanding and plastically defoming a tubular member (26) with a support member (14), tubular support (12), expansion cone (18), support (20), sliding valve (34), tubular (32), one way poppet valve (30), and shoe (28) in a wellbore (36) at a formation (38) of interest.

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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International application No. INTERNATIONAL SEARCH REPORT PCT/US04/06246 CLASSIFICATION OF SUBJECT MATTER IPC(7) : E21B 23/08 US CL : 166/285, 287, 207, 177.4 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 166/285, 287, 207, 177.4 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) **DOCUMENTS CONSIDERED TO BE RELEVANT** Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category * US 6,085,838 A (Vercaemer et al.) 11 July 2000 (11.07.2000), whole document 4-8 X US 5,718,288 A (Bertet et al.) 17 February 1998 (17.02.1998), whole document 10, 11, 13, 15-17, 21, 23, 25-27, 29, 30, 32-Further documents are listed in the continuation of Box C. See patent family annex. later document published after the international filing date or Special categories of cited documents: priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document defining the general state of the art which is not considered to be of particular relevance document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive •x• -Eearlier application or patent published on or after the international filing step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited document of particular relevance; the claimed invention cannot be "L" considered to involve an inventive step when the document is combined with one or more other such documents, such to establish the publication date of another citation or other special reason (23 specified) combination being obvious to a person skilled in the art document referring to an oral disclosure, use, exhibition or other means "æ" document member of the same patent family document published prior to the international filing date but later than the Date of mailing of the international search report 26 JAN 2005 Date of the actual completion of the international search 21 October 2004 (21.10.2004) Authorized officer Name and mailing address of the ISA/US David J. Bagnell Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 308-1113 Facsimile No. (703) 305-3230

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/06246

	No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first
Shee		onal search report has not been established in respect of certain claims under Article 17(2)(a) for the following
teasons:		
1.		Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	\boxtimes	Claims Nos.: 24 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Claim 24 is missing
3.	6.4(a).	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule
Box	No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This	Internat	ional Searching Authority found multiple inventions in this international application, as follows:
1. 2. 3.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. Rem	ark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)